



# IXL Skill Alignment

6th alignment for EngageNY Common Core Curriculum

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# Module 1

## Ratios and Unit Rates

Textbook section	IXL skills
<b>Topic A:</b> Representing and Reasoning About Ratios	<b>R.1</b> Write a ratio >>
	<b>R.2</b> Write a ratio: word problems >>
	<b>R.3</b> Identify equivalent ratios >>
	<b>R.5</b> Ratio tables >>
	<b>R.6</b> Equivalent ratios: word problems >>
	<b>R.12</b> Scale drawings: word problems >>
<b>Topic B:</b> Collections of Equivalent Ratios	<b>R.5</b> Ratio tables >>
	<b>R.8</b> Compare ratios: word problems >>
	<i>See also:</i> <b>R.12</b> Scale drawings: word problems >>
<b>Topic C:</b> Unit Rates	<b>R.7</b> Unit rates and equivalent rates >>
	<b>R.9</b> Unit rates: word problems >>
	<b>T.3</b> Convert and compare customary units >>
	<b>T.7</b> Convert and compare metric units >>
	<b>V.2</b> Unit prices >>
	<b>V.3</b> Unit prices with fractions and decimals >>
<b>Topic D:</b> Percent	<b>S.2</b> Convert between percents, fractions, and decimals >>
	<b>S.3</b> Compare percents to each other and to fractions >>
	<b>S.4</b> Compare percents and fractions: word problems >>
	<b>S.5</b> Percents of numbers and money amounts >>
	<b>S.8</b> Find what percent one number is of another >>
	<b>S.9</b> Find what percent one number is of another: word problems >>
	<b>V.5</b> Sale prices >>
	<b>V.6</b> Sale prices: find the original price >>

*See also:*

- S.6** Percents of numbers: word problems >>
  - V.1** Which is the better coupon? >>
  - V.7** Percents - calculate tax, tip, mark-up, and more >>
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## Module 2

### Arithmetic Operations Including Dividing by a Fraction

Textbook section	IXL skills
<b>Topic A:</b> Dividing Fractions by Fractions	<b>L.2</b> Reciprocals >>
	<b>L.3</b> Divide whole numbers and unit fractions >>
	<b>L.4</b> Divide fractions by whole numbers in recipes >>
	<b>L.5</b> Divide fractions >>
	<b>L.7</b> Divide fractions and mixed numbers >>
	<b>L.8</b> Divide fractions and mixed numbers: word problems >>
	<i>See also:</i>
	<b>L.1</b> Divide whole numbers by unit fractions using models >>
<b>Topic B:</b> Multi-Digit Decimal Operations - Adding, Subtracting, and Multiplying	<b>G.1</b> Add and subtract decimal numbers >>
	<b>G.2</b> Add and subtract decimals: word problems >>
	<b>G.3</b> Estimate sums and differences of decimals >>
	<b>H.1</b> Estimate products of decimal numbers >>
	<b>H.2</b> Multiply decimals >>
	<b>U.4</b> Multiply money by whole numbers and decimals >>
	<b>U.5</b> Multiply money: word problems >>
	<i>See also:</i>
<b>Topic C:</b> Dividing Whole Numbers and Decimals	<b>C.4</b> Estimate quotients >>
	<b>H.4</b> Divide decimals by whole numbers >>
	<b>H.5</b> Divide decimals by whole numbers: word problems >>
	<b>H.7</b> Division with decimal quotients >>
	<b>U.6</b> Divide money amounts >>
	<b>U.7</b> Divide money amounts: word problems >>
	<i>See also:</i>
	<b>H.6</b> Multiply and divide decimals by powers of ten >>

**Topic D:** Number Theory - Thinking Logically About Multiplicative Arithmetic

- C.1** Divisibility rules >>
  - E.4** Identify factors >>
  - E.5** Prime factorization >>
  - E.7** Greatest common factor >>
  - E.8** Least common multiple >>
  - E.9** GCF and LCM: word problems >>
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# Module 3

## Rational Numbers

Textbook section	IXL skills
<b>Topic A:</b> Understanding Positive and Negative Numbers on the Number Line	<b>M.1</b> Understanding integers >>
	<b>M.2</b> Integers on number lines >>
	<b>M.4</b> Graph integers on horizontal and vertical number lines >>
	<b>P.6</b> Rational numbers: find the sign >>
<b>Topic B:</b> Order and Absolute Value	<b>F.4</b> Put decimal numbers in order >>
	<b>F.5</b> Inequalities with decimals >>
	<b>I.7</b> Compare fractions with like and unlike denominators >>
	<b>I.12</b> Put a mix of decimals, fractions, and mixed numbers in order >>
	<b>M.3</b> Absolute value and opposite integers >>
	<b>M.5</b> Compare integers >>
	<b>P.1</b> Compare rational numbers >>
	<b>P.2</b> Put rational numbers in order >>
	<b>P.3</b> Absolute value of rational numbers >>
	<b>T.9</b> Compare temperatures above and below zero >>
<b>Topic C:</b> Rational Numbers and the Coordinate Plane	<b>X.1</b> Objects on a coordinate plane >>
	<b>X.2</b> Graph points on a coordinate plane >>
	<b>X.5</b> Distance between two points >>

# Module 4

## Expressions and Equations

Textbook section	IXL skills
<b>Topic A:</b> Relationships of the Operations	
<b>Topic B:</b> Special Notations of Operations	<b>D.1</b> Write multiplication expressions using exponents >> <b>D.2</b> Evaluate exponents >> <b>D.4</b> Exponents with decimal bases >> <b>D.5</b> Exponents with fractional bases >> <b>O.3</b> Evaluate numerical expressions involving whole numbers >>
<b>Topic C:</b> Replacing Letters and Numbers	<b>Y.3</b> Evaluate variable expressions with whole numbers >> <b>Y.8</b> Properties of addition >> <b>Y.9</b> Properties of multiplication >> <b>FF.14</b> Volume of cubes and rectangular prisms >>
<b>Topic D:</b> Expanding, Factoring, and Distributing Expressions	<b>Y.6</b> Identify terms and coefficients >>
<b>Topic E:</b> Expressing Operations in Algebraic Form	<b>Y.1</b> Write variable expressions >> <b>Y.2</b> Write variable expressions: word problems >>
<b>Topic F:</b> Writing and Evaluating Expressions and Formulas	<b>Y.2</b> Write variable expressions: word problems >>
<b>Topic G:</b> Solving Equations	<b>Z.6</b> Solve one-step equations with whole numbers >>
<b>Topic H:</b> Applications of Equations	<b>AA.2</b> Graph inequalities on number lines >> <b>AA.3</b> Write inequalities from number lines >> <b>AA.4</b> Solve one-step inequalities >> <b>AA.5</b> Graph solutions to one-step inequalities >> <b>BB.2</b> Identify independent and dependent variables >>

**BB.5** Complete a table for a two-variable relationship >>

**BB.6** Write a two-variable equation >>

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# Module 5

## Area, Surface Area, and Volume Problems

Textbook section	IXL skills
<b>Topic A:</b> Area of Triangles, Quadrilaterals, and Polygons	<b>FF.5</b> <a href="#">Area of quadrilaterals &gt;&gt;</a> <b>FF.6</b> <a href="#">Area of compound figures &gt;&gt;</a> <b>FF.7</b> <a href="#">Area between two rectangles &gt;&gt;</a>  <i>See also:</i> <b>FF.8</b> <a href="#">Area between two triangles &gt;&gt;</a>
<b>Topic B:</b> Polygons on the Coordinate Plane	<b>X.5</b> <a href="#">Distance between two points &gt;&gt;</a> <b>FF.1</b> <a href="#">Perimeter &gt;&gt;</a> <b>FF.6</b> <a href="#">Area of compound figures &gt;&gt;</a> <b>FF.7</b> <a href="#">Area between two rectangles &gt;&gt;</a> <b>FF.8</b> <a href="#">Area between two triangles &gt;&gt;</a> <b>FF.10</b> <a href="#">Compare area and perimeter of two figures &gt;&gt;</a>  <i>See also:</i> <b>FF.9</b> <a href="#">Rectangles: relationship between perimeter and area &gt;&gt;</a>
<b>Topic C:</b> Volume of Right Rectangular Prisms	<b>FF.14</b> <a href="#">Volume of cubes and rectangular prisms &gt;&gt;</a>
<b>Topic D:</b> Nets and Surface Area	<b>EE.3</b> <a href="#">Nets of three-dimensional figures &gt;&gt;</a> <b>FF.15</b> <a href="#">Surface area of cubes and rectangular prisms &gt;&gt;</a>

# Module 6

## Statistics

Textbook section	IXL skills
<b>Topic A:</b> Understanding Distributions	<b>GG.3</b> Interpret line plots >> <b>GG.4</b> Create line plots >> <b>GG.5</b> Create and interpret line plots with fractions >>
<b>Topic B:</b> Summarizing a Distribution that is Approximately Symmetric Using the Mean and Mean Absolute Deviation	
<b>Topic C:</b> Summarizing a Distribution that is Skewed Using the Median and the Interquartile Range	<b>GG.19</b> Interpret box-and-whisker plots >>
<b>Topic D:</b> Summarizing and Describing Distributions	<b>GG.19</b> Interpret box-and-whisker plots >>